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1 MELAALCRWG LLLALLPPGA ASTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL ELTYLPTNAS LSFLODIEV QGYVLIHNO VRQVPLQRLR
101 IVRGTQLFED NYALAVLDNG DPLNNTTPVT GASPGLREL QRLSLTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA LTLIDTNRSR ACHPCSPMCK
201 GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP
301 YNYLSTDVGS CTLVCPLHNQ EVTAEDGTOR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLQVF
401 ETTLEETGYL YISAWPDSLP DLSVFQNLQV IRGRILHNGA YSLTLQGLGI SWLGLRSURE LGSGLALIIH NTHLCFVHTV PWDQLFRNPH QALLHTANRP
501 EDECVGEGLA CHQLCARGHC WGPGPQTQCN CSQFLRGQEC VEECRVLQGL PREYVNAHRC LpchpecpQ NGSVTCFGPE ADQCVACAHY KDPPFFCVARC
601 PSGVKPDLsy MPIWKFPDEE GACQPCPINC THSCVDLDDK GCPAE (SEQ ID NO: 13)

FIG. 1A

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7C2	aa	22-53	(31 RESIDUES)
7F3	aa	22-53	(31 RESIDUES)
2C4	aa	22-584	(562 RESIDUES)
7D3	aa	22-584	(562 RESIDUES)
3E8	aa	512-625	(113 RESIDUES)
4D5	aa	529-625	(96 RESIDUES)
2H11	aa	529-645	(116 RESIDUES)
3H4	aa	541-599	(58 RESIDUES)

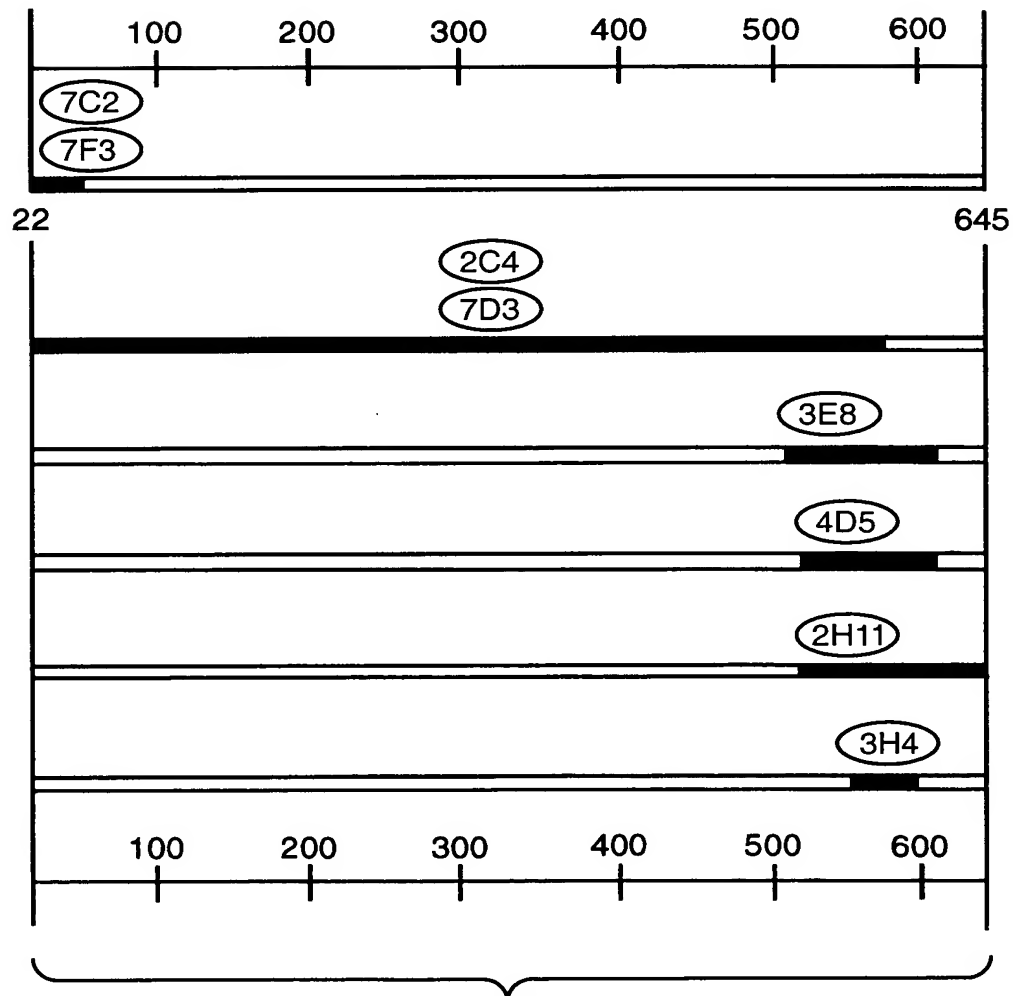


FIG. 1B

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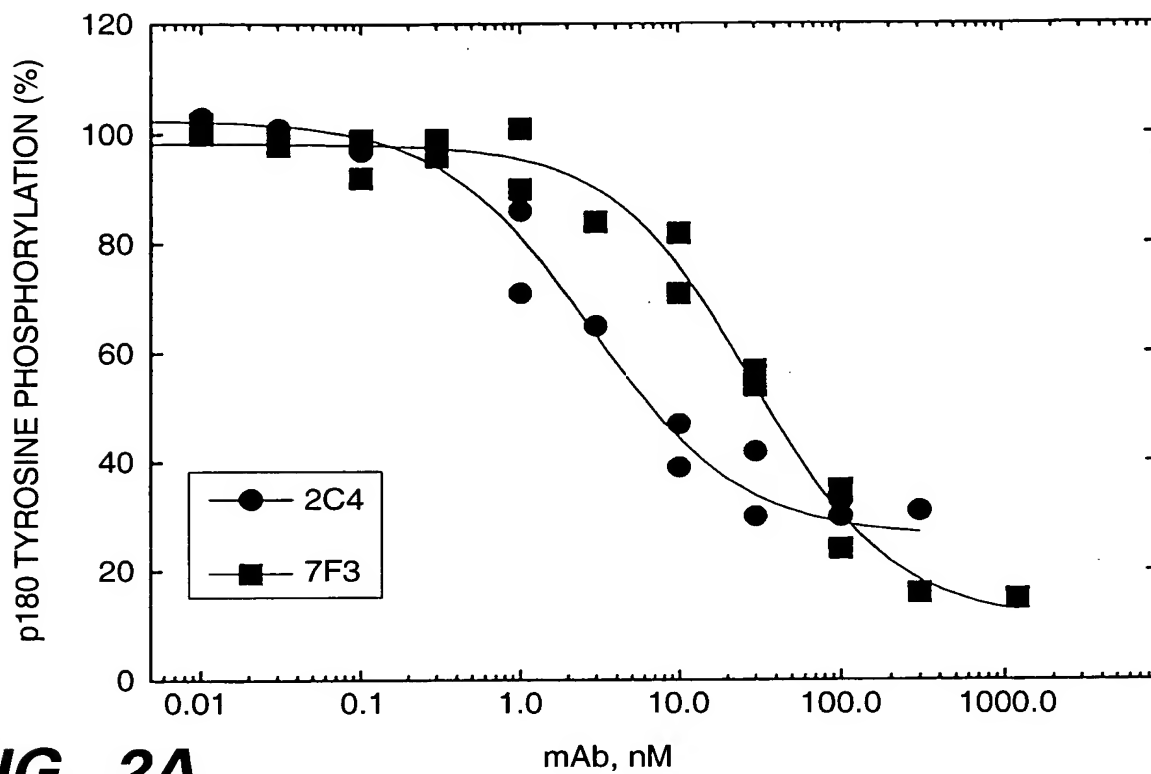


FIG. 2A

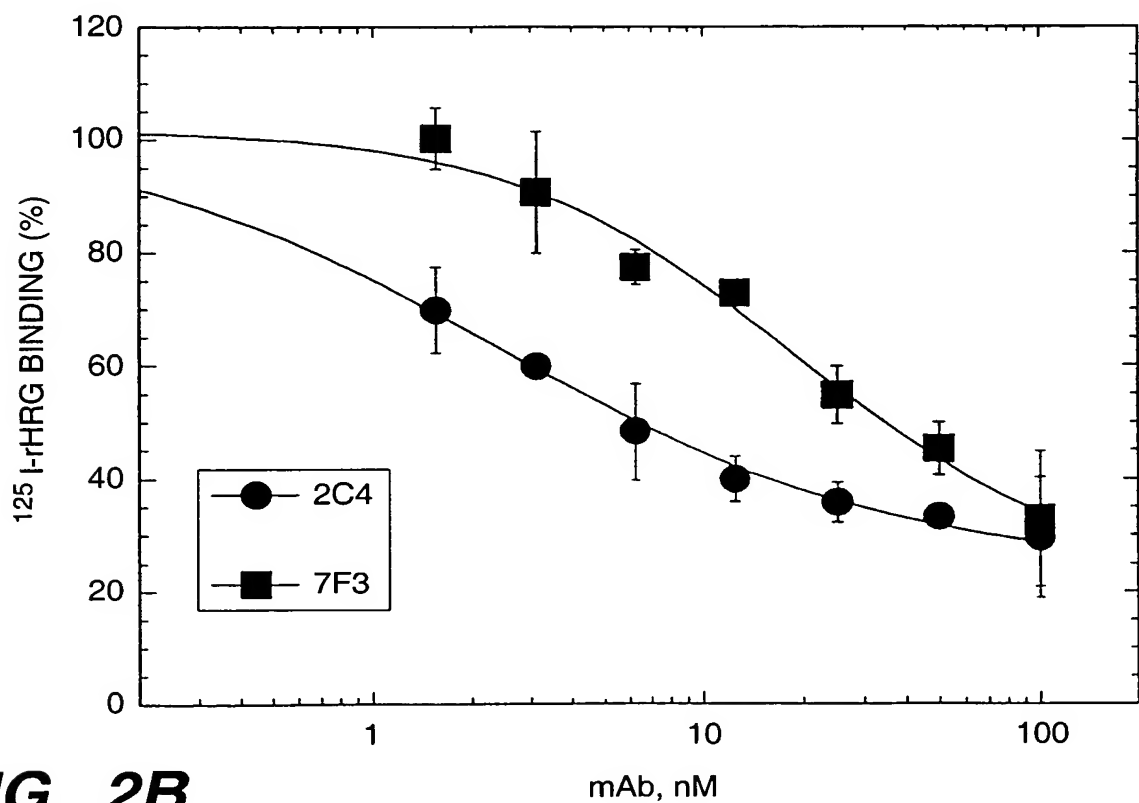


FIG. 2B

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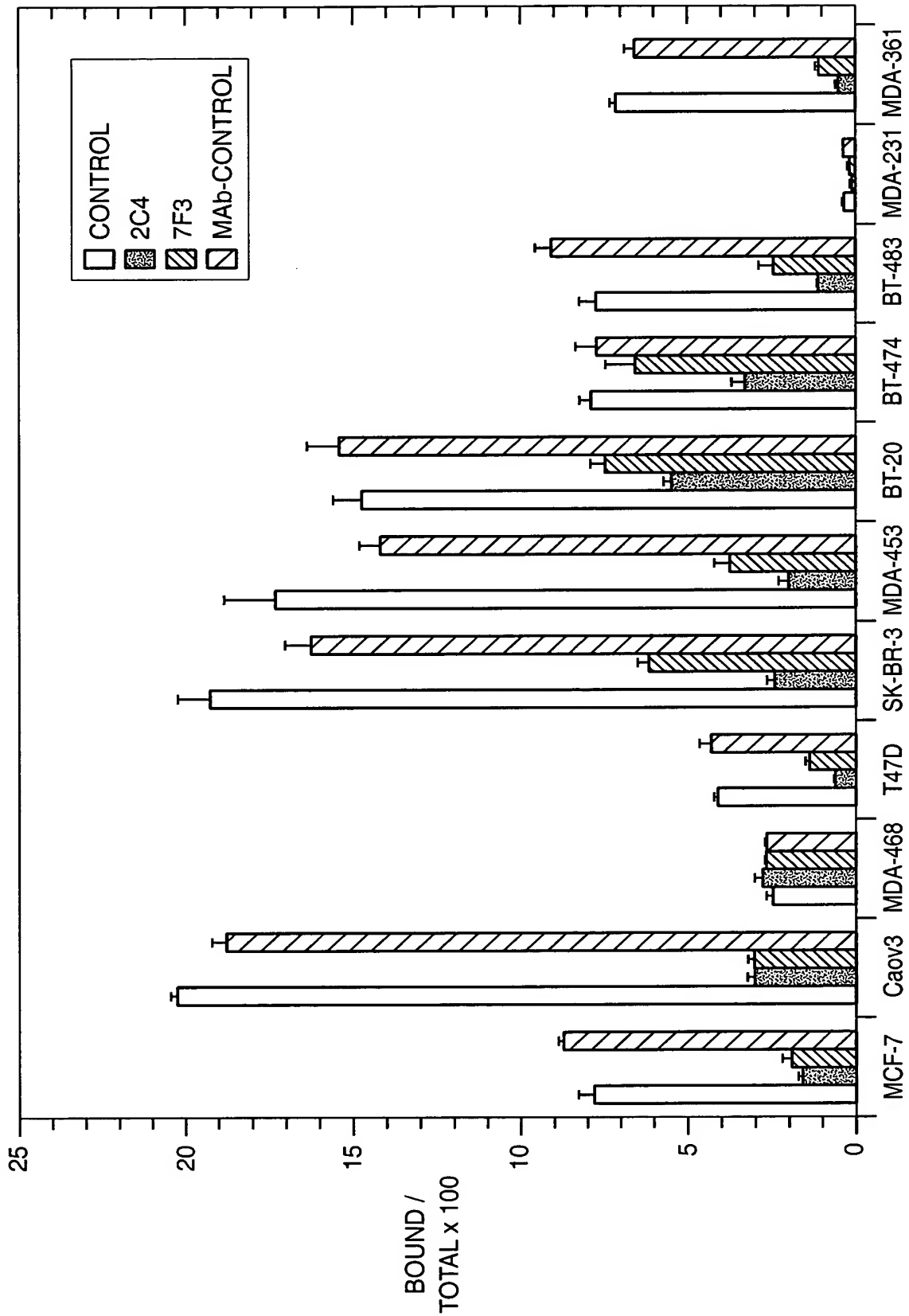


FIG.-3

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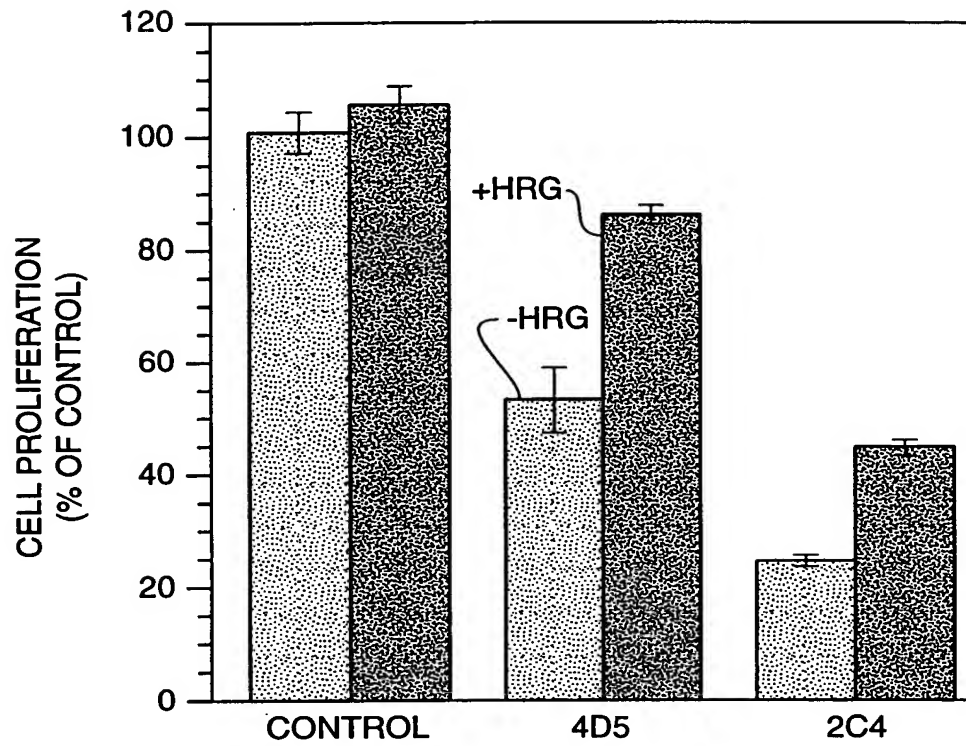


FIG. 4A

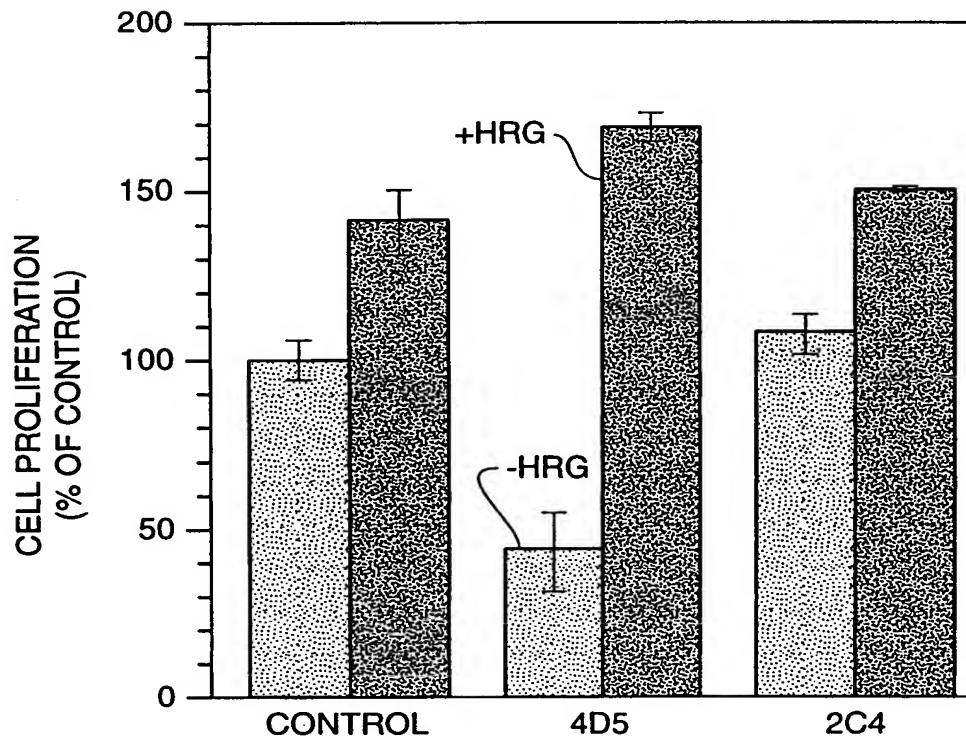


FIG. 4B

+

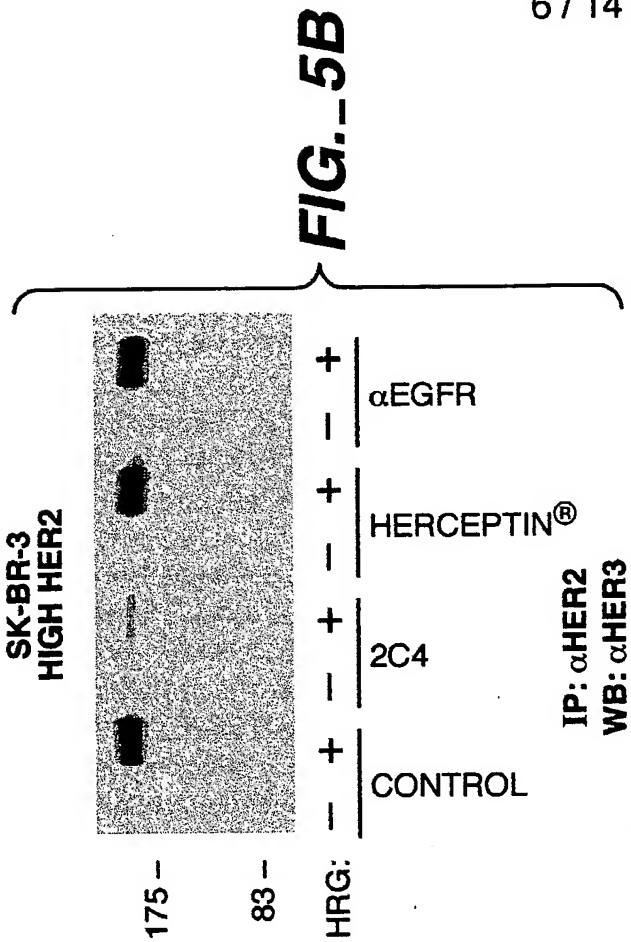


FIG. 5B

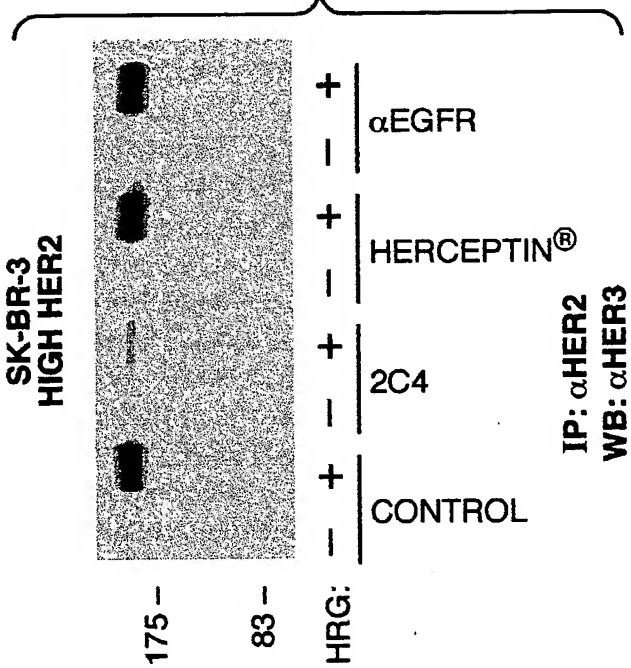
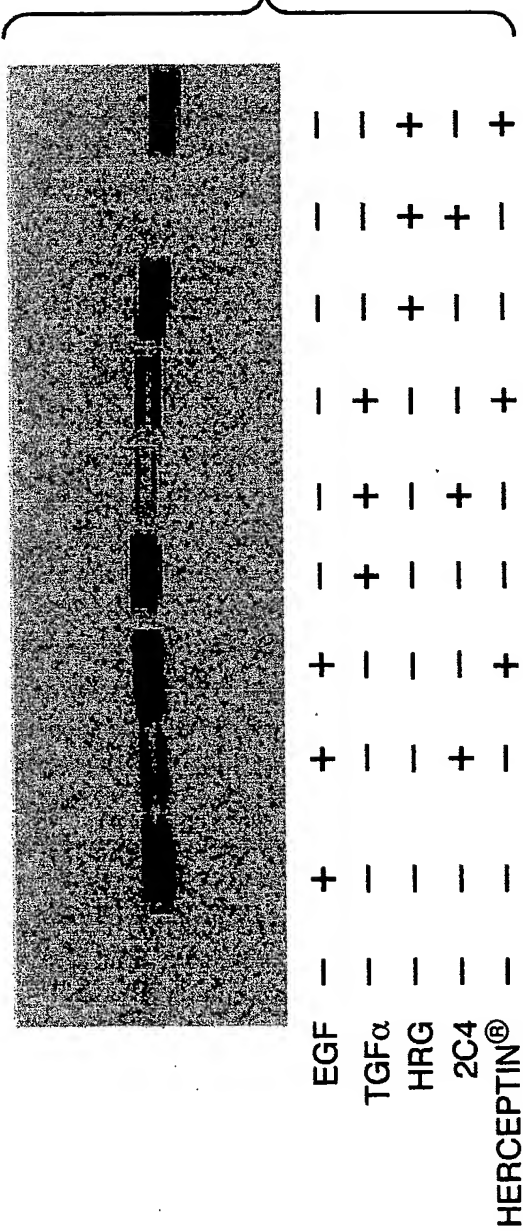


FIG. 10



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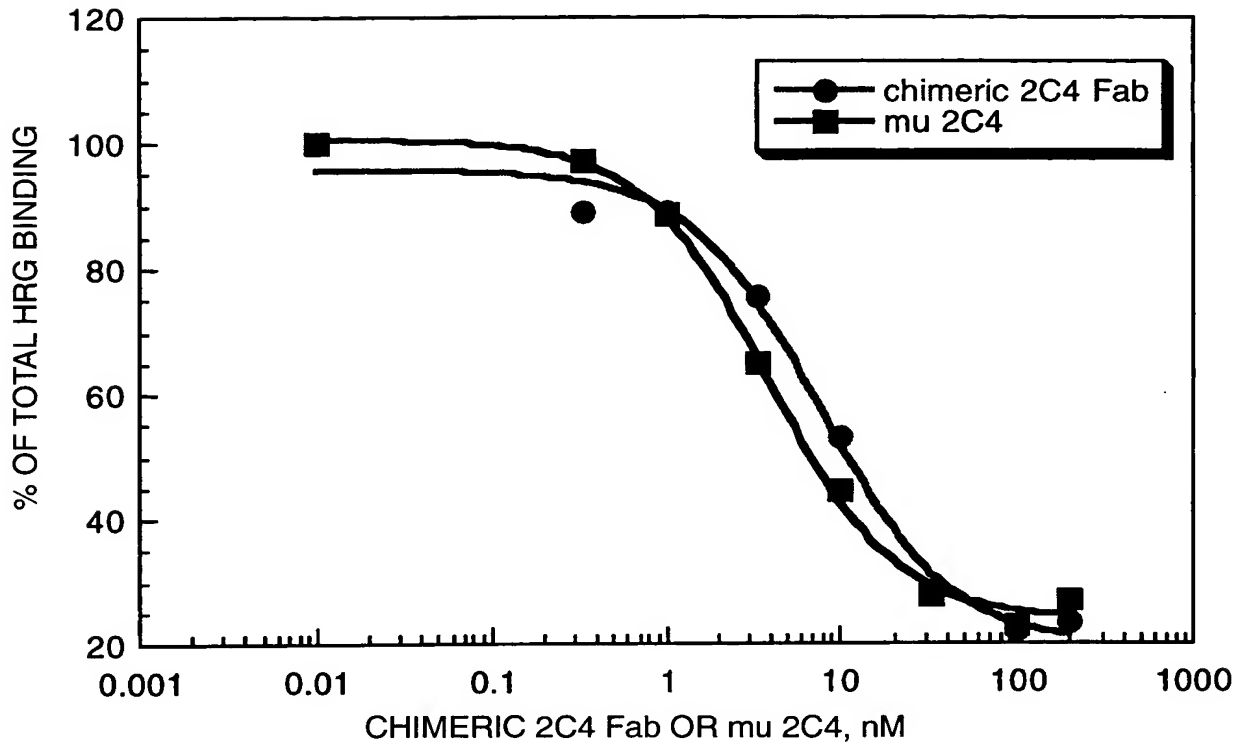


FIG. 6A

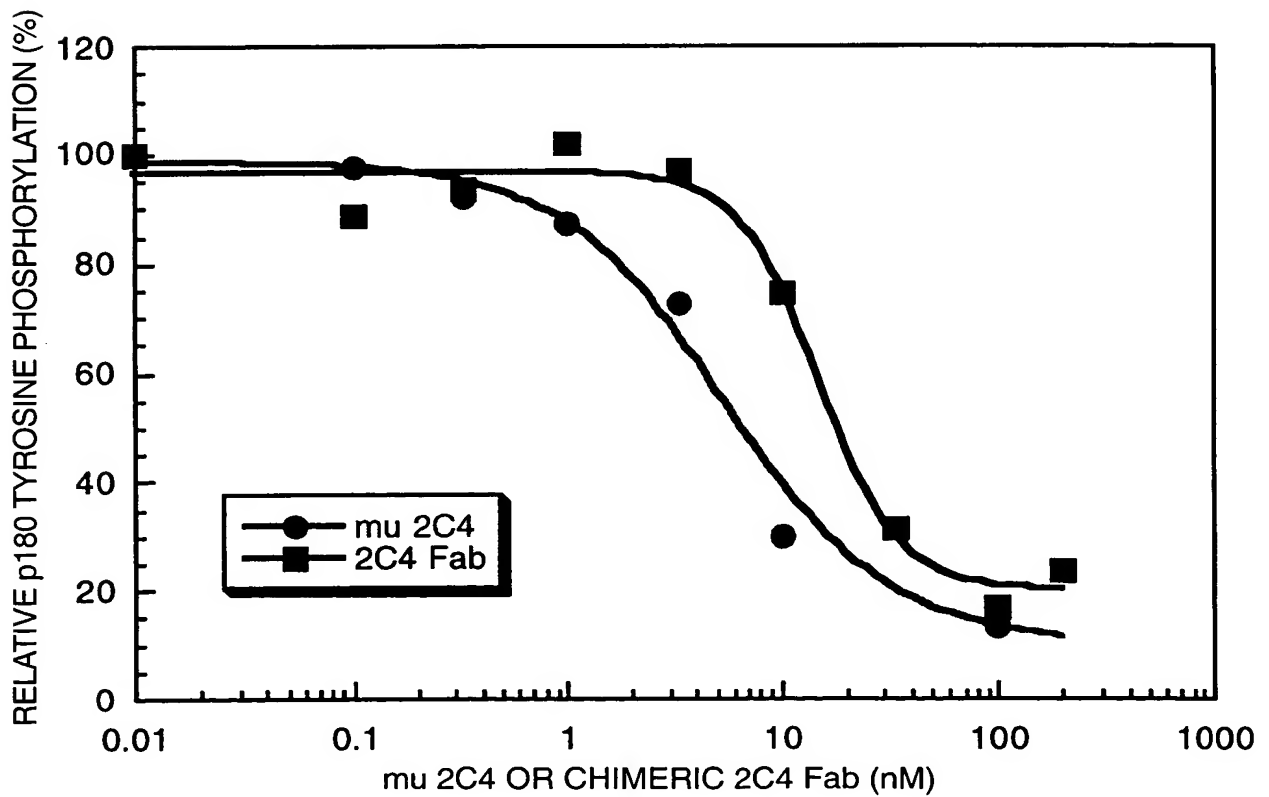


FIG. 6B

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VARIABLE LIGHT

	10	20	30	40
2C4	DTVMTQSHKIMSTSVGDRVSITC	[KASQDV SIGVA]	WYQQRP	
	** *****	*		*
574	DIQMTQSPSSLSASVGDRVTITC	[KASQDV SIGVA]	WYQQKP	
		* ** ***		
hum κI	DIQMTQSPSSLSASVGDRVTITC	[RASQIS NYLA]	WYQQKP	

	50	60	70	80
2C4	GQSPKLLIY [SASYRYT]	GVPDRFTGSGSGTDFTFTISSVQA		
	** *	*	*	*
574	GKAPKLLIY [SASYRYT]	GVPSRFSGSGSGTDFTLTISLQP		
	* *****			
hum κI	GKAPKLLIY [AASSLES]	GVPSRFSGSGSGTDFTLTISLQP		

	90	100	
2C4	EDLAVYYC [QQYYIYPYT]	FGGGTKLEIK (SEQ ID NO:1)	
	* *	*	*
574	EDFATYYC [QQYYIYPYT]	FGQGTKVEIK (SEQ ID NO:3)	
	*** *		
hum κI	EDFATYYC [QQYNSLPWT]	FGQGTKVEIK (SEQ ID NO:5)	

FIG. 7A

VARIABLE HEAVY

	10	20	30	40
2C4	EVQLQQSGPELVKPGTSVKISCKAS	[GFTFTD YTMD]	WVKQS	
	** ** *	* *****		* *
574	EVQLVESGGGLVQPGGSLRLSCAAS	[GFTFTD YTMD]	WVRQA	
		*** *		
hum III	EVQLVESGGGLVQPGGSLRLSCAAS	[GFTFSS YAMS]	WVRQA	

	50	a	60	70	80
2C4	HGKSLEWIG [DVNPNSGGSIYNQRFGK]	KASLTVDRSSRIVYM			
	* * **	*** *	***** *		
574	PGKGLEWVA [DVNPNSGGSIYNQRFGK]	RFTLSVDRSKNTLYL			
	***** * *	*** *			
hum III	PGKGLEWVA [VISGDGGSTYYADSVKG]	RFTISRDN SKNTLYL			

	abc	90	100ab	110
2C4	ELRSLTFEDTAVYYCAR	[NLGPSFYFDY]	WGQGTTLTVSS (SEQ ID NO:2)	
	*** **		**	
574	QMNSLRAEDTAVYYCAR	[NLGPSFYFDY]	WGQGTTLTVSS (SEQ ID NO:4)	

hum III	QMNSLRAEDTAVYYCAR	[GRVGYSLYDY]	WGQGTTLTVSS (SEQ ID NO:6)	

FIG. 7B

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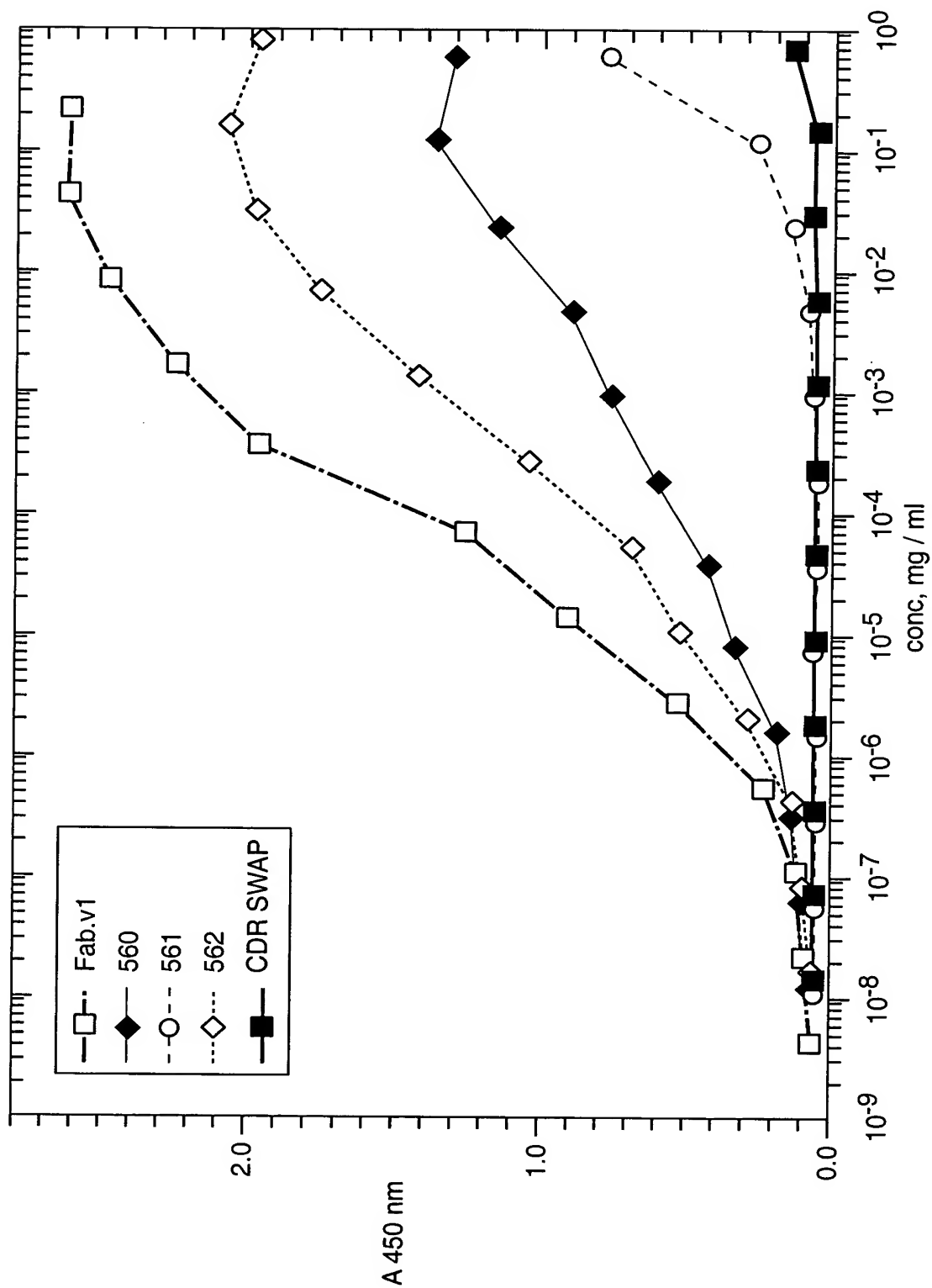


FIG._8A

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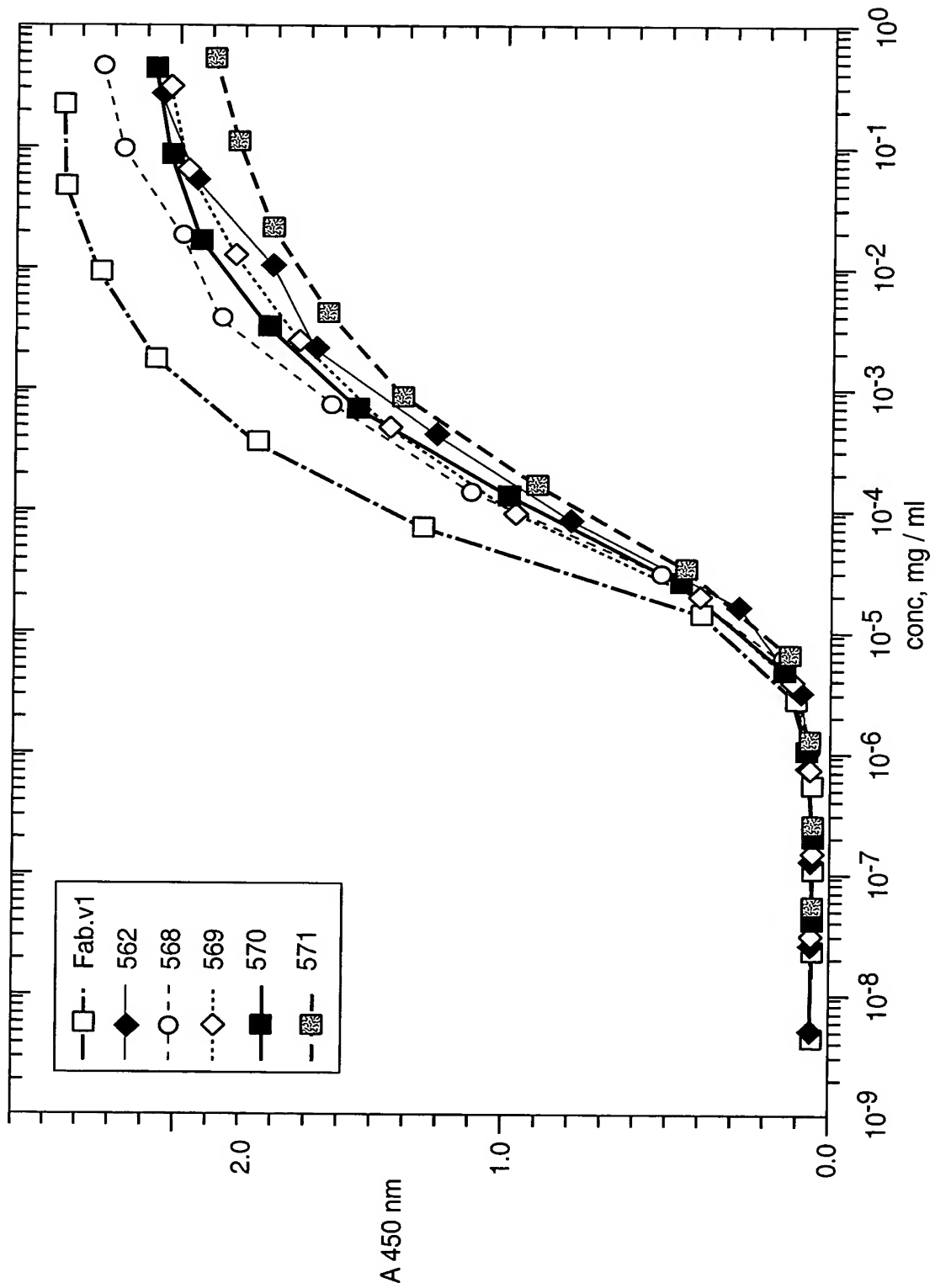


FIG. 8B

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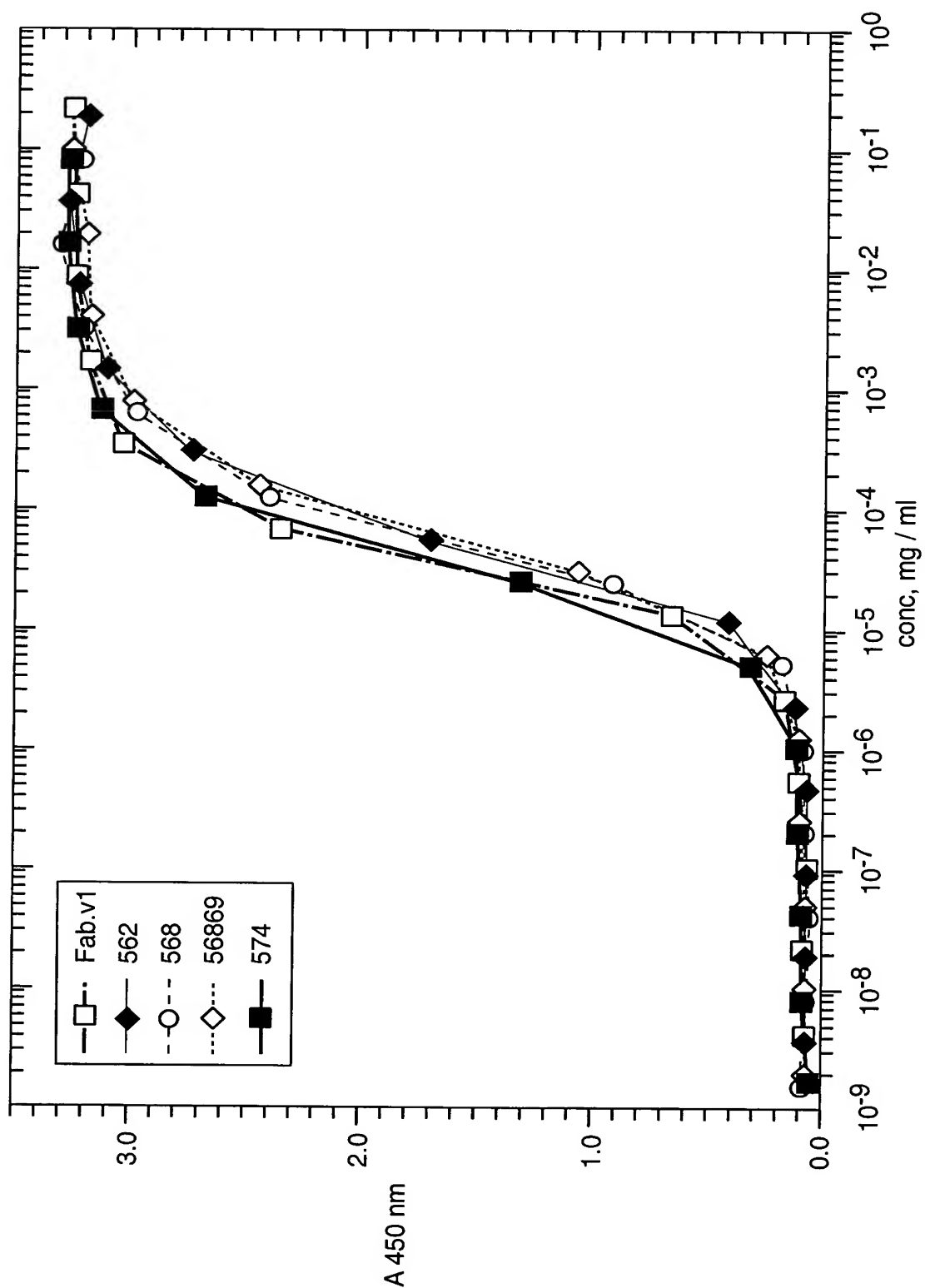


FIG._8C

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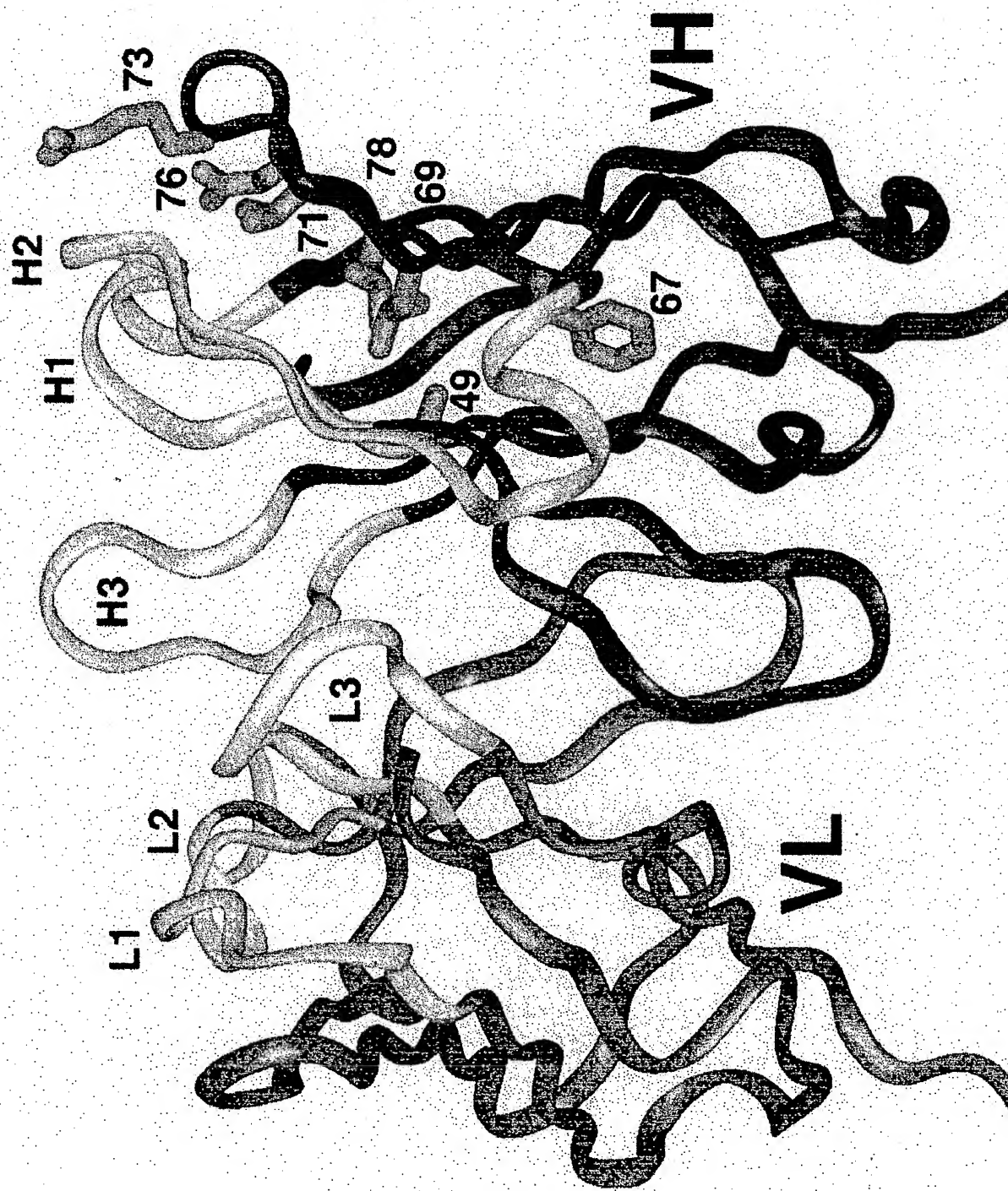


FIG. 9

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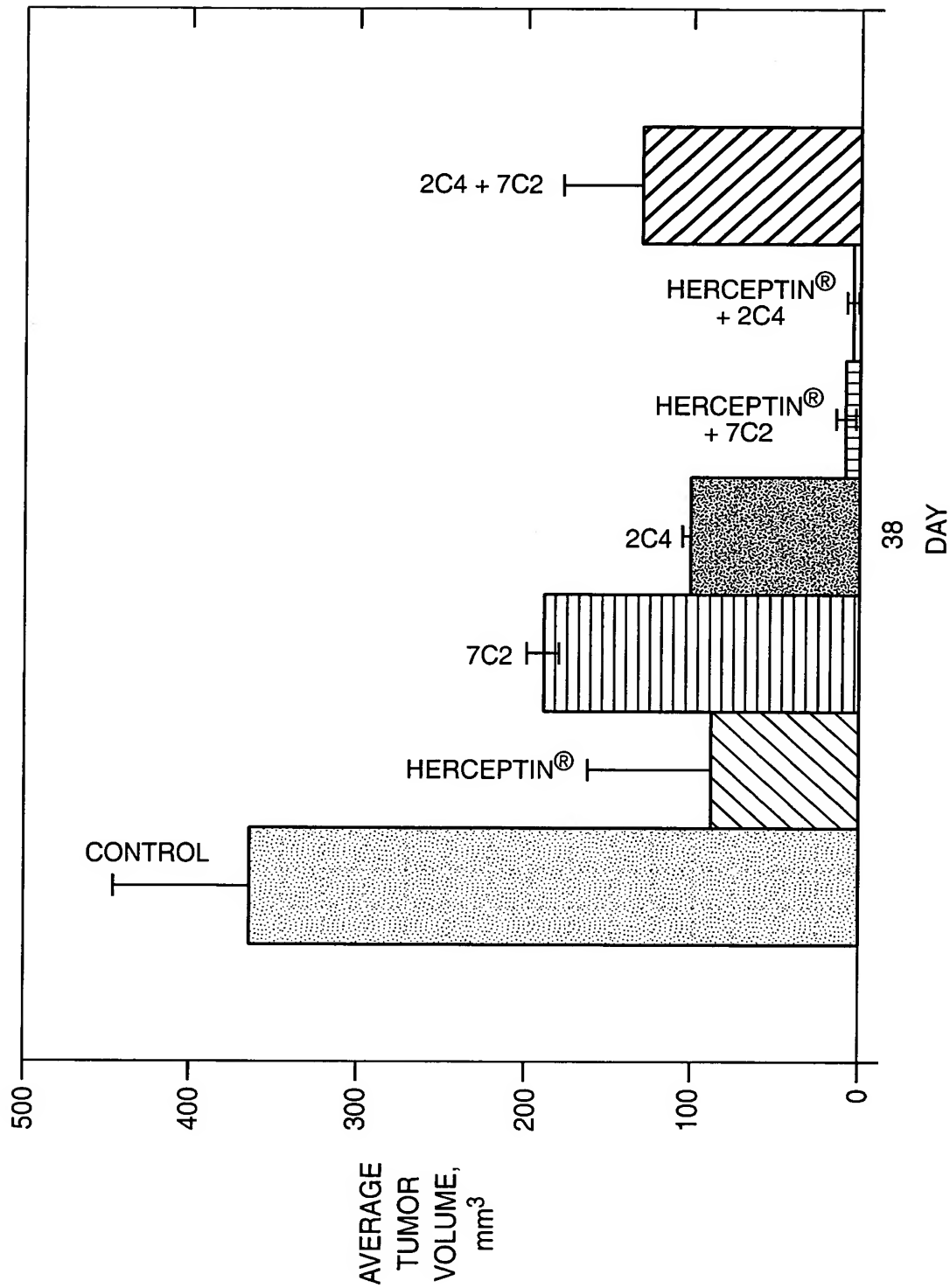


FIG. 11

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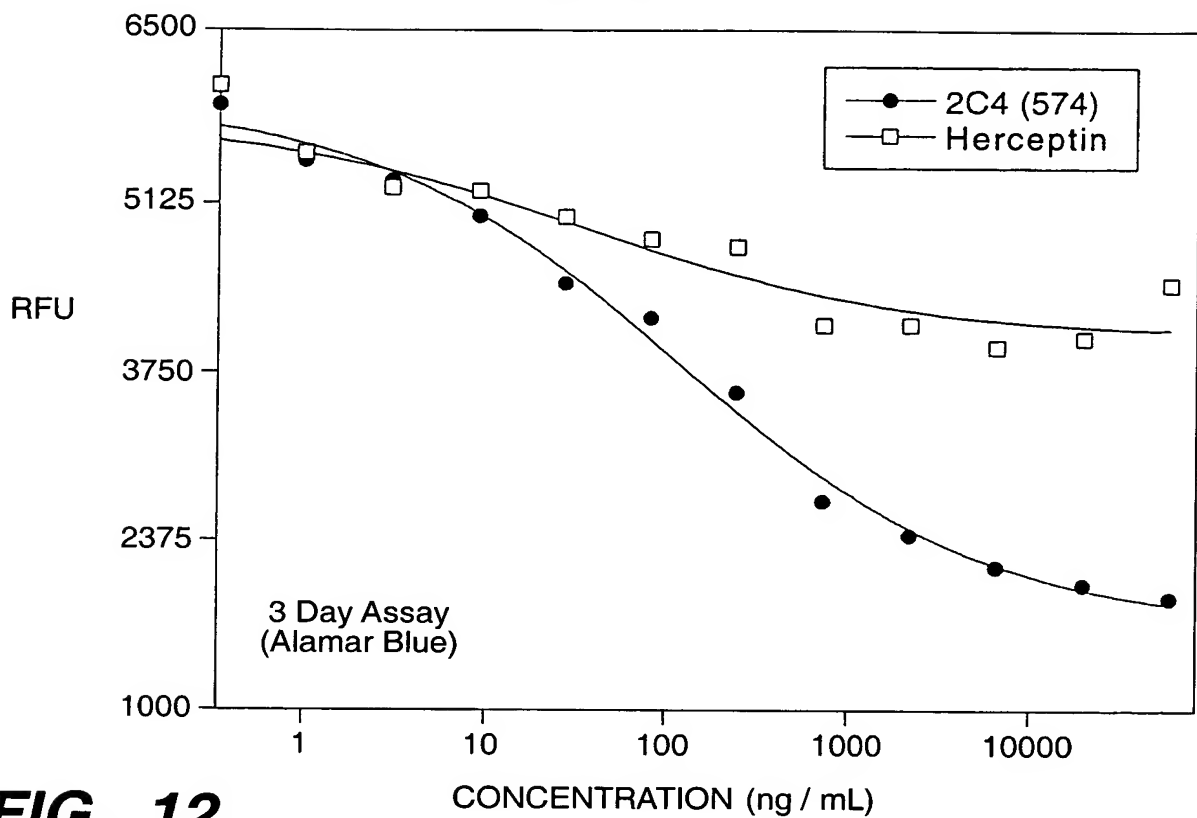


FIG. 12

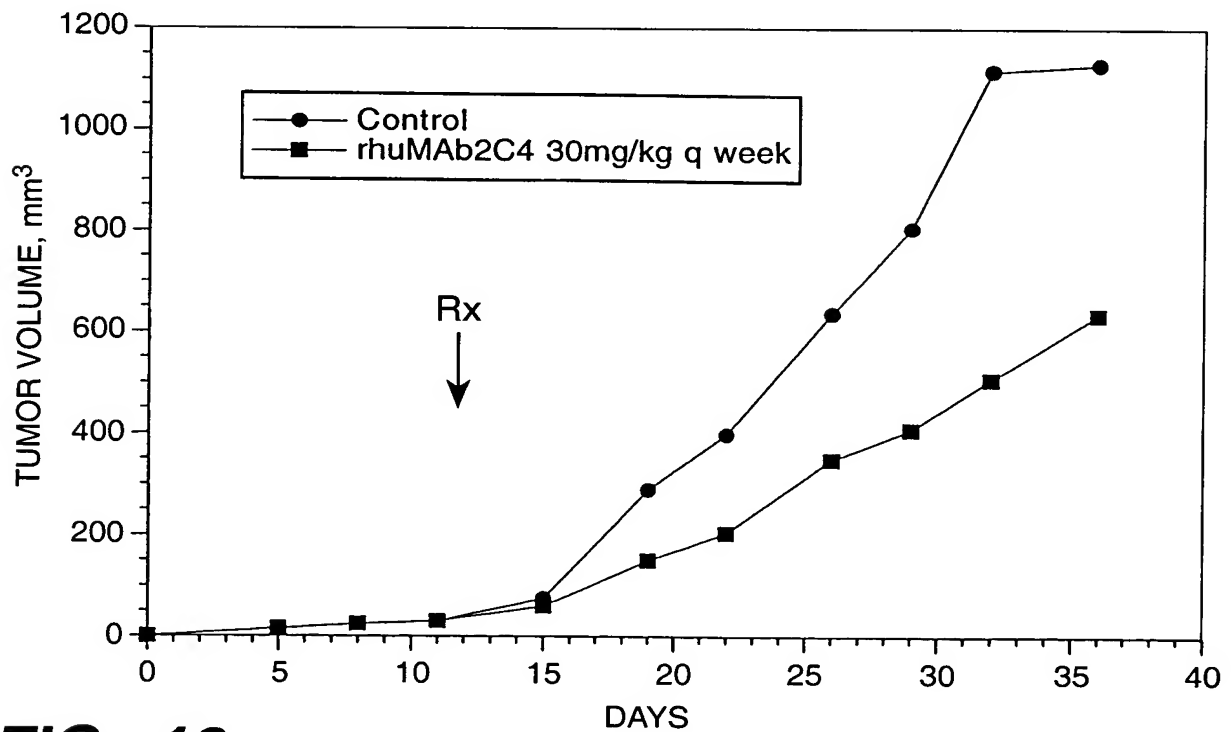


FIG. 13